



high electron mobility transistor thz spectrometer

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar

Results 1 - 10 of about 59 for **high electron mobility transistor thz spectrometer**. (0.06 seconds)

Terahertz emission by plasma waves in 60 nm gate **high electron mobility transistors** - group of 3 »

W Knap, J Lusakowski, T Parenty, S Bollaert, A ... - Applied Physics Letters, 2004 - univ-montp2.fr

... in GaAs-based **high electron mobility** transistors HEMTs and in gated double quantum ...

was chosen for its **high** InGaAs channel **mobility** and **high** sheet carrier ...

Cited by 18 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

NbN hot **electron** bolometric mixers-a new technology for low-noise **THz** receivers - group of 4 »

E Gerecht, CF Musante, Y Zhuang, KS Yngvesson, T ... - IEEE Transactions on Microwave Theory and Techniques, 1999 - ieeexplore.ieee.org

... GHz, 1.56 **THz**, and 2.24 **THz**, respectively ... A liquid-helium-cooled isolator-coupled **high electron- ... mobility transistor** (HEMT) amplifier was employed as the first ...

Cited by 15 - [Web Search](#) - [BL Direct](#)

Voltage tuneable terahertz emission from a ballistic nanometer InGaAs / **InAlAs transistor** - group of 2 »

J Lusakowski - Journal of Applied Physics - link.aip.org

... emission by plasma waves in 60 nm gate **high electron mobility** transistors," Appl. ...

Electron Devices 42, 991 (1995) ... The **transistor** magnetic field is equal to zero ...

Cited by 1 - [Web Search](#)

A 1-**THz** Superconducting Hot-**Electron**-Bolometer Receiver for Astronomical Observations - group of 2 »

DV Meledin, DP Marrone, CYE Tong, H Gibson, R ... - IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, 2004 - ieeexplore.ieee.org

... 1.046 **THz** and from 1.261 to 1.275 **THz** ... a low-noise cryogenic **high electron-mobility transistor** (HEMT) amplifier ... and a digital autocorrelation **spectrometer** with 3 ...

Cited by 1 - [Web Search](#) - [BL Direct](#)

Terahertz Generation and Detection by Plasma Waves in Nanometer Gate **High Electron Mobility** ... - group of 3 »

W Knap, J Lusakowski, F Teppe, N Dyakonova, Y ... - univ-montp2.fr

... by using the InGaAs **high electron mobility transistor** with the ... Lattice-matched

InGaAs/AlInAs **high electron mobility** transistors on ... of weak **THz** — cyclotron res ...

[View as HTML](#) - [Web Search](#)

Terahertz generation by plasma waves in nanometer gate **high electron mobility** transistors

J Lusakowski, F Teppe, N Dyakonova, YM Meziani, W ... - physica status solidi(a), 2005 - doi.wiley.com

... a lattice-matched InGaAs/AlInAs **High Electron Mobility Transistor** (HEMT) [2 ... The **transistor** was placed in a cyclotron ... a spectral analysis of weak **THz** radiation. ...

[Web Search](#)

French Team Demonstrates Terahertz Transistor

M Electronics - ieeexplore.ieee.org

... French team used a **high electron-mobility transistor** with an ... per square centimeter, the **transistor** should be ... vices have a lower **electron mobility**, the gated ...

[Web Search](#)

LETTER TO THE EDITOR

F Maiwald, F Lewen, V Ahrens, M Beaky, R ... - Journal of Molecular Spectroscopy, 2000 - ph1.uni-koeln.de

... region between 1 and 1.6 **THz**, which has been ... of the Cologne terahertz **spectrometer** (13), however ... with a low-noise **high- electron mobility transistor** (HEMT) and ...



high electron mobility transistor thz spectromet

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar

Results 1 - 10 of about 21 for **high electron mobility transistor thz spectrometry**. (0.09 seconds)

[Manufacturability of high-performance discrete electronic devices - group of 3 »](#)

MJ Kelly - ELECTRONICS AND COMMUNICATION ENGINEERING JOURNAL, 2002 - ieeexplore.ieee.org
 ... The **high-electron-mobility transistor**, the quantum well laser, the ... **high yield, high reproducibility, high reliability**, good ... level for the extra **electron** is at ...
[Web Search](#) - [BL Direct](#)

[\[book\] Investigation of novel metal gate and high-k dielectric materials for CMOS technologies - group of 2 »](#)

J Westlinder - diva-portal.org
 ... for optimal performance of the **transistor** [9]. Several ... long time considered a promising **high-** candidate, but ... gate leakage current due to **electron** emission into ...
[Web Search](#)

[RADIATION RESISTANCE OF GaAs-BASED MICROWAVE SCHOTTKY-BARRIER DEVICES](#)

AE Belyaev, J Breza, EF Venger, M Vesely, VVMIV ... - isp.kiev.ua
 ... quantum properties (eg, **high charge carrier mobility** in two ... quality with such powerful methods as **high-** and low ... diffraction (HEED and LEED), Auger **electron** and x ...
[Web Search](#)

[Design, Modeling, and Testing of High Performance RF Bistable Magnetic Actuators - group of 4 »](#)

GD Gray - 2005 - etd.gatech.edu
 ... MOSFET Metal Oxide Semiconductor Field Effect Transistor MESFET Metal Semiconductor Field Effect Transistor HEMT **High Electron Mobility** Transistors ...
[View as HTML](#) - [Web Search](#)

[Nanoscience and nanotechnology in Europe - group of 7 »](#)

WM Tolles - NANOTECHNOLOGY, 1996 - iop.org
 ... **spectrometry**. ... A continuing program involves a pseudomorphic **high-electron-mobility transistor** (HEMT) (strained lattice); with this it is expected to reach 144 ...
[Cited by 11](#) - [Web Search](#) - [BL Direct](#)

[I, A, AS/IO, GO, AS Planar Heteroepitaxial](#)

D Pavlidis, CH Hong - ieeexplore.ieee.org
 ... GaAs-based materials through higher **electron mobility** and saturation ... lower series resistance and hot **electron** noise ... low input power levels and **high** frequency of ...
[Web Search](#)

[\[doc\] ARMY FY03 STTR TITLE INDEX](#)

P SUBMITTAL - ntcc.edu
 ... of plasma-wave **transistor** devices (eg, based **High Electron Mobility** Transistors (HEMTs), in both the detection and generation of **THz** frequency electromagnetic ...
[View as HTML](#) - [Web Search](#)

[Materials modification with ion beams - group of 4 »](#)

JS Williams - Reports on Progress in Physics, 1986 - iop.org
 ... collisions) but the large density of electrons and the **high** ... Sputtered target atoms Secondary ion mass **spectrometry** (SIMS) Auger **electron** spectroscopy (AES) ...
[Cited by 9](#) - [Web Search](#)

[OPENING PLENARY - group of 4 »](#)

MO PRESENTATIONS - Appl. Phys. Lett, 2000 - lucy.mrs.org



high electron mobility transistor thz

Search

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar

Results 1 - 10 of about 496 for **high electron mobility transistor thz**. (0.02 seconds)[Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors - group of 3 »](#)

W Knap, J Lusakowski, T Parenty, S Bollaert, A ... - Applied Physics Letters, 2004 - univ-montp2.fr

... voltage tunable emission of terahertz radiation 0.4–1.0 **THz** from a gated two-dimensional **electron** gas in a 60 nm InGaAs **high electron mobility transistor**. ...Cited by 18 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)[Ultra-low-noise cryogenic high-electron-mobility transistors - group of 5 »](#)KHG Duh, MW Pospieszalski, WF Kopp, P Ho, AA Jabra ... - IEEE Transactions on **Electron** Devices, 1988 - ieeexplore.ieee.org... is due to the enhancement of **electron mobility** by reduced ... gate and source contacts), and **high** transconductance g ... For a field-effect **transistor**, the minimum ...Cited by 11 - [Web Search](#)[Ultra-short 25-nm-gate lattice-matched InAlAs/InGaAs HEMTs within the range of 400 GHz cutoff ... - group of 3 »](#)Y Yamashita, A Endoh, K Shinohara, M Higashiwaki, ... - IEEE **Electron** Device Letters, 2001 - ieeexplore.ieee.org... HEMT, **high** electron **mobility transistor**, InAlAs/InGaAs ... wave (300 GHz to 3 **THz**) frequency ranges ... based InAlAs/In- GaAs **high electron mobility** transistors (HEMTs ...Cited by 22 - [Web Search](#) - [BL Direct](#)[Resonant detection of subterahertz radiation by plasma waves in a submicron field-effect transistor - group of 3 »](#)

W Knap, Y Deng, S Romyantsev - Applied Physics Letters, 2002 - univ-montp2.fr

... de- tection by two-dimensional **electron** plasma confined ... a 0.15 m gate length GaAs field-effect **transistor**. ... possibility of achieving, in **high mobility** GaAs FETs ...Cited by 16 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)[Large bandwidth and low noise in a diffusion-cooled hot-electron bolometer mixer - group of 6 »](#)

A Skalare, WR McGrath, B Bumble, HG LeDuc, PJ ... - Applied Physics Letters, 1996 - nano.ece.uci.edu

... **electron-electron** elastic scattering time, which is 160 **THz** for a ... A cooled **high electron mobility transistor** HEMT amplifier with an isolator was used as the ...Cited by 19 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)[NbN hot electron bolometric mixers-a new technology for low-noise **THz** receivers - group of 4 »](#)

E Gerecht, CF Musante, Y Zhuang, KS Yngvesson, T ... - IEEE Transactions on Microwave Theory and Techniques, 1999 - ieeexplore.ieee.org

... GHz, 1.56 **THz**, and 2.24 **THz**, respectively ... A liquid-helium-cooled isolator-coupled **high electron- ... mobility transistor** (HEMT) amplifier was employed as the first ...Cited by 15 - [Web Search](#) - [BL Direct](#)[2. 5-**THz** GaAs monolithic membrane-diode mixer - group of 4 »](#)

PH Siegel, RP Smith, MC Gaidis, SC Martin - IEEE Transactions on Microwave Theory and Techniques, 1999 - ieeexplore.ieee.org

... B. Diode and Membrane Fabrication The 2.5-**THz** mesa air-bridge T ... trilayer resist process as is com- monly used for **high electron-mobility transistor** (HEMT) or ...Cited by 30 - [Web Search](#) - [BL Direct](#)[Plasma and transit-time mechanisms of the terahertz radiation detection in high-electron-mobility ... - group of 6 »](#)

A Satou, I Khmyrova, V Ryzhii, MS Shur - Semiconductor Science and Technology, 2003 - iop.org

... in field-effect-**transistor** structures with **high electron mobility** can be used for



high electron mobility transistor terahertz modi

Search

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)
Scholar Results 1 - 10 of about 204 for **high electron mobility transistor terahertz modulation**. (0.02 seconds)

Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors - group of 3 »

W Knap, J Lusakowski, T Parenty, S Bollaert, A ... - Applied Physics Letters, 2004 - univ-montp2.fr

... chosen for its **high InGaAs channel mobility** and **high ...** the effective electric field in the **high field region** ... waves in the gated two-dimensional **electron system**. ...

Cited by 18 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Terahertz sources and detectors using two-dimensional electronic fluid in high electron-mobility ...

- group of 3 »

MS Shur, JQ Lu - IEEE Transactions on Microwave Theory and Techniques, 2000 - ieeexplore.ieee.org

... However, the **modulation** of the **electron sheet** ... Weikle II, "A resonant **terahertz** detector utilizing a **high electron mobility transistor**," in IEDM ...

Cited by 3 - [Web Search](#) - [BL Direct](#)

by Two-Dimensional Electronic Fluid - group of 2 »

M Dyakonov, M Shur - IEEE TRANSACTIONS ON ELECTRON DEVICES, 1996 - ieeexplore.ieee.org

... Abstract-We show that a short channel **High Electron Mobility Transistor** (HEMT) has a resonance ... currently used as detectors and mixers in the **terahertz** range. ...

Cited by 19 - [Web Search](#) - [BL Direct](#)

... : Terahertz Sources and Detectors Using Two Dimensional Electronic Fluid in High Electron Mobility ... - group of 2 »

MS Shur, JQ Lu, MI Dyakonov - **Terahertz** Electronics Proceedings, 1998. THz Ninety Eight. ..., 1998 - ieeexplore.ieee.org

... can be utilized for **terahertz** detectors, broad ... us consider an AlGaAsInGaAs **High Electron Mobility Transistor** similar to ... Once the **electron** velocity exceeds the ...

Cited by 2 - [Web Search](#)

... AND CUTOFF FREQUENCY OF PSEUDOMORPHIC () AlGaAs/InGaAs MODULATION-DOPED FIELD-EFFECT TRANSISTOR FOR - group of 3 »

C APPLICATIONS - MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, 1999 - doi.wiley.com

... wave, submillimeter-wave, and **terahertz** range cir ... of a pseudomorphic AlGaAsr InGaAs **modulation-doped field** ... The **high-electron-mobility transistor** HEMT is a very ...

Cited by 4 - [Web Search](#) - [BL Direct](#)

Terahertz plasma wave resonance of two-dimensional electrons in InGaP/InGaAs/GaAs high-electron- ... - group of 2 »

T Otsuji, M Hanabe, O Ogawara - Applied Physics Letters, 2004 - osti.gov

... resonant intensity in the **terahertz** range for a ... length InGaP/InGaAs/GaAs pseudomorphic **high-electron-mobility transistor** ... and a moderate **modulation index** (the ...

Cited by 2 - [Cached](#) - [Web Search](#) - [BL Direct](#)

Noise performance of the radio-frequency single-electron transistor - group of 4 »

L Roschier, P Hakonen, K Bladh, P Delsing, KW ... - JOURNAL OF APPLIED PHYSICS, 2004 - boojum.hut.fi

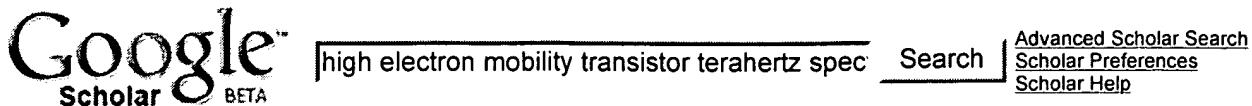
... RF-SET systems, the second amplifier **high-electron- mobility transistor** HEMT sets ... with a period of one **electron** charge, e ... **high** resistance 50–200 k of the SET ...

Cited by 7 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Low ballistic mobility in submicron HEMTs - group of 4 »

MS Shur - IEEE Electron Device Letters, 2002 - ieeexplore.ieee.org

... [7] M. Dyakonov and MS Shur, "Ballistic transport in **high mobility** semi- conductor ... at low-temperatures for low power **high speed** logic ... **Electron** Devices, vol. ...



Scholar Results 1 - 10 of about 59 for **high electron mobility transistor terahertz spectrometer** (0.08 seconds)

Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors - group of 3 »

W Knap, J Lusakowski, T Parenty, S Bollaert, A ... - Applied Physics Letters, 2004 - univ-montp2.fr
 ... chosen for its **high** InGaAs channel **mobility** and **high** ... the effective electric field
 in the **high** field region ... waves in the gated two-dimensional **electron** system. ...
 Cited by 18 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Magnetic field effect on the terahertz emission from nanometer InGaAs/AlInAs high electron mobility ... - group of 2 »

N Dyakonova, F Teppe, J Łusakowski, W Knap, M ... - JOURNAL OF APPLIED PHYSICS, 2005 - univ-montp2.fr
 ... spectral analysis of the weak **terahertz** radiation. 10 The **spectrometer** consisted
 of two superconducting ... The **high electron mobility transistor** HEMT and detector ...
 Cited by 1 - [View as HTML](#) - [Web Search](#)

Voltage tuneable terahertz emission from a ballistic nanometer InGaAs / InAlAs transistor - group of 2 »

J Lusakowski - Journal of Applied Physics - link.aip.org
 ... for a ballistic field effect **transistor**: New mechanism ... in 60 nm gate **high electron mobility** transistors," Appl. ... of sub-**terahertz** and **terahertz** radiation by ...
 Cited by 1 - [Web Search](#)

Terahertz Generation and Detection by Plasma Waves in Nanometer Gate High Electron Mobility ... - group of 3 »

W Knap, J Lusakowski, F Teppe, N Dyakonova, Y ... - univ-montp2.fr
 ... The **terahertz** emission (0.4–1.0 THz ... by using the InGaAs **high electron mobility** transistor with the ... matched InGaAs/AlInAs **high electron mobility** transistors on ...
[View as HTML](#) - [Web Search](#)

Terahertz generation by plasma waves in nanometer gate high electron mobility transistors

J Łusakowski, F Teppe, N Dyakonova, YM Meziani, W ... - physica status solidi(a), 2005 - doi.wiley.com
 ... that allows determining average **electron mobility** in the ... the **transistor** does not contribute essentially to the ... At **high** magnetic fields, Shubnikov-de Haas ...
[Web Search](#)

Miniature quantum-well microwave spectrometer operating at liquid-nitrogen temperatures - group of 2 »

IV Kukushkin - Applied Physics Letters - link.aip.org
 ... 187–207. J.-QLÜ and MS.Shur, "Terahertz detection by high-electron-mobility transistor: Enhancement by drain bias," Appl. Phys. Lett. 78, 2587 (2001). ...
[Web Search](#)

French Team Demonstrates Terahertz Transistor

M Electronics - ieeexplore.ieee.org
 ... French team used a **high electron-mobility transistor** with an ... vices have a lower **electron mobility**, the gated ... demonstration showing that the **transistor** emits at ...
[Web Search](#)

LETTER TO THE EDITOR

F Maiwald, F Lewen, V Ahrens, M Beaky, R ... - Journal of Molecular Spectroscopy, 2000 - ph1.uni-koeln.de
 ... essentially a modified version of the Cologne terahertz spectrometer (13), however ... and amplified with a low-noise **high- electron mobility transistor** (HEMT) and ...
[Web Search](#)



high electron mobility transistor terahertz modi Search

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar Results 1 - 10 of about 31 for high electron mobility transistor terahertz modulation spectrometer. (0.08

Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors - group of 3 »

W Knap, J Lusakowski, T Parenty, S Bollaert, A ... - Applied Physics Letters, 2004 - univ-montp2.fr
 ... chosen for its **high** InGaAs channel **mobility** and **high** ... the effective electric field
 in the **high** field region ... waves in the gated two-dimensional **electron** system. ...
 Cited by 18 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Terahertz Generation and Detection by Plasma Waves in Nanometer Gate High Electron Mobility

... - group of 3 »

W Knap, J Lusakowski, F Teppe, N Dyakonova, Y ... - univ-montp2.fr
 ... Lattice-matched InGaAs/AlInAs **high electron mobility** transistors on InP ... under the
 gate, by the **electron** drift velocity, and ... still holds and a **high** field region ...
[View as HTML](#) - [Web Search](#)

BUDKER INSTITUTE OF NUCLEAR PHYSICS SB RAS - group of 4 »

T RADIATION, LD PUBLICATIONS - inp.nsk.su
 ... using two-dimensional electronic fluid in **high electron-mobility** transistors. ... The
 project of **high** power submillimetre-wavelength free **electron** laser ...
[View as HTML](#) - [Web Search](#)

Volume

GAE Vandenbosch - ieeexplore.ieee.org
 ... Laser-microwave **spectrometer** for investigation of Al and Au ... Time-domain analysis
 of **high**-Q field oscillations ... 9. Two-stream instabilities of **electron-hole** solid ...
[Web Search](#)

Volume

MP Vasilevskiy, IA Grande, ACL Cubeceira, I Barba, ... - ieeexplore.ieee.org
 ... Laser-microwave **spectrometer** for investigation of Al and Au ... Time-domain analysis
 of **high**-Q field oscillations ... 9. Two-stream instabilities of **electron-hole** solid ...
[Web Search](#)

High-Speed and High-Output InP-InGaAs Unidirectional-Carrier Photodiodes - group of 2 »

H Ito, S Kodama, Y Muramoto, T Furuta, T Nagatsuma ... - IEEE Journal of Selected Topics in Quantum Electronics, 2004 - ieeexplore.ieee.org
 ... However, the **electron** diffusion velocity in the InGaAs ... due to the uniquely large
 minority **mobility** of electrons ... to attain an extremely **high** without sacrificing ...
 Cited by 6 - [Web Search](#) - [BL Direct](#)

The structure of carbodiimide, HNCNH - group of 3 »

W JABS - Molecular Physics, 1999 - Taylor & Francis
 ... a low-noise HEMT (**high-electron mobility transistor**) amplifier ... The power output
 of the **high** frequency BWO is ... onto a He- cooled InSb hot-electron bolometer. ...
 Cited by 3 - [Web Search](#) - [BL Direct](#)

A 240–380 GHz millimetre wave source for very high resolution spectroscopy of high Rydberg states - group of 2 »

M Schafer, M Andrist, H Schmutz, F Lewen, G ... - J. Phys. B: At. Mol. Opt. Phys, 2006 - iop.org
 ... photoacoustic power meter (**TeraHertz** absolute power ... matched low-noise **high electron mobility transistor** (HEMT) amplifier [25 ... spectroscopy of **high** Rydberg states ...
[Web Search](#)



high electron mobility transistor terahertz spec

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar Results 1 - 10 of about 136 for **high electron mobility transistor terahertz spectroscopy**. (0.08 seconds)

Terahertz Detector Utilizing Two-Dimensional Electronic Fluid - group of 2 »

JQ Lü, MS Shur, JL Hesler, L Sun, R Weikle - IEEE Electron Device Letters, 1998 - ieeexplore.ieee.org
 ... for a ballistic field effect **transistor**. ... frequency multiplication of **Terahertz** radiation
 by ... electronic fluid in **high electron mobility** transistors," **Electron** ...
[Cited by 6](#) - [Web Search](#) - [BL Direct](#)

Terahertz imaging using an interferometric array - group of 5 »

JF Federici, D Gary, B Schuklin, F Huang, H Altan, ... - APPLIED PHYSICS LETTERS, 2003 - physics.njit.edu
 ... mechanism of **Terahertz** photomixing in **high-electron mobility transistor** under interband ...
 of substrate-lens design in **terahertz** time-domain **spectroscopy** ...
[Cited by 8](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

A Resonant Terahertz Detector Utilizing a High Electron Mobility Transistor

I Uis, I Introduction, IIE Procedure - ieeexplore.ieee.org
 ... analogy for a ballistic field effect **transistor**. ... frequency multiplication of **terahertz**
 radiation by ... fluid in **high electron mobility** transistors", **Electronics** ...
[Cited by 1](#) - [Web Search](#) - [BL Direct](#)

Large bandwidth and low noise in a diffusion-cooled hot-electron bolometer mixer - group of 6 »

A Skalare, WR McGrath, B Bumble, HG LeDuc, PJ ... - Applied Physics Letters, 1996 - nano.ece.uci.edu
 ... A cooled **high electron mobility transistor** HEMT amplifier with an isolator ... by
 fluctuations in the **electron** temperature, 11 ... and a Connecticut **High** Tech- nology ...
[Cited by 19](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

NbN hot electron bolometric mixers-a new technology for low-noise THz receivers - group of 4 »

E Gerecht, CF Musante, Y Zhuang, KS Yngvesson, T ... - IEEE Transactions on Microwave Theory and Techniques, 1999 - ieeexplore.ieee.org
 ... such coatings in the **terahertz** range becomes ... A liquid-helium-cooled isolator-coupled
high electron- ... mobility transistor (HEMT) amplifier was employed as the ...
[Cited by 15](#) - [Web Search](#) - [BL Direct](#)

Voltage tuneable terahertz emission from a ballistic nanometer InGaAs / InAlAs transistor - group of 2 »

J Lusakowski - Journal of Applied Physics - link.aip.org
 ... for a ballistic field effect **transistor**: New mechanism ... VV.Popov, and MS.Shur, "Terahertz
 emission by ... in 60 nm gate **high electron mobility** transistors," Appl ...
[Cited by 1](#) - [Web Search](#)

Response Properties at 2.525 Terahertz using High-T_c Josephson Junctions on Silicon Bicrystal ... - group of 3 »

J Chen, E Kobayashi, K Nakajima, T Yamashita, S ... - IEEE Trans. Appl. Superconduct, 1999 - ieeexplore.ieee.org
 ... **Spectroscopy** operating up to **terahertz** (THz) wave ... **Spectroscopy** using **high-T_c** Josephson
 junctions ... a cooled low-noise **high electron mobility transistor** (HEMT) IF ...
[Cited by 1](#) - [Web Search](#) - [BL Direct](#)

... -edge broadened magneto-optic-polar-Kerr-effect-based broadband incoherent detection of terahertz ...

A De - Applied Physics Letters - link.aip.org
 ... Lu and MS.Shur, "Terahertz detection by **high-electron-mobility transistor**: Enhancement
 by ... Far-infrared time-domain **spectroscopy** with **terahertz** beams of ...
[Web Search](#)



high electron mobility transistor terahertz

Search

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar

Results 1 - 10 of about 468 for **high electron mobility transistor terahertz**. (0.08 seconds)**Terahertz emission by plasma waves in 60 nm gate high electron mobility transistors - group of 3 »**

W Knap, J Lusakowski, T Parenty, S Bollaert, A ... - Applied Physics Letters, 2004 - univ-montp2.fr

... voltage tunable emission of **terahertz** radiation 0.4–1.0 THz from a gated two-dimensional **electron** gas in a 60 nm InGaAs **high electron mobility transistor** ...Cited by 18 - View as HTML - Web Search - BL Direct**Shallow water analogy for a ballistic field effect transistor: New mechanism of plasma wave ... - group of 3 »**

M Dyakonov, M Shur - PHYSICAL REVIEW LETTERS, 1993 - link.aps.org

... **terahertz** frequencies which may lead to important practical applications. As an example, let us consider an AlGaAs/InGaAs **high electron mobility transistor** ...Cited by 44 - Web Search - BL Direct**Plasma mechanism of terahertz photomixing in high-electron mobility transistor under interband ... - group of 2 »**

V Ryzhii, I Khmyrova, A Satou, PO Vaccaro, T Aida, ... - Journal of Applied Physics, 2002 - adsabs.harvard.edu

Title: Plasma mechanism of **terahertz** photomixing in **high-electron mobility transistor**

under interband photoexcitation Authors: Ryzhii, V.; Khmyrova, I.; Satou ...

Cited by 4 - Web Search - BL Direct**Plasma wave electronics: novel terahertz devices using two dimensional **electron** fluid - group of 2 »**MI Dyakonov, MS Shur - **Electron** Devices, IEEE Transactions on, 1996 - ieeexplore.ieee.org... how the propagation of plasma waves in a **High Electron Mobility Transistor** (HEMT) can be used to implement a new generation of **terahertz** devices, including ...Cited by 17 - Web Search - BL Direct**Detection of microwave radiation by electronic fluid in high electron mobility transistors - group of 3**

»

G Srv - ELECTRONICS LETTERS, 1996 - ieeexplore.ieee.org

... in a resonance mode with **high** peak responsivity ... length, p is the channel **electron mobility**, is the ... water analogy for a ballistic field effect **transistor** ...Cited by 9 - Web Search - BL Direct**Terahertz photomixing in quantum well structures using resonant excitation of plasma oscillations - group of 2 »**

V Ryzhii, I Khmyrova, M Shur - Journal of Applied Physics, 2002 - link.aip.org

... well diode and **transistor** structures with **high electron mobility**. This effect provides a new mechanism for the generation of tunable **terahertz** radiation using ...Cited by 9 - Web Search - BL Direct**... barrier-injection transit-time mechanisms of terahertz plasma instability in high-electron mobility ... - group of 5 »**

V Ryzhii, M Shur - Semiconductor Science and Technology, 2002 - iop.org

... two-dimensional (2D) **electron** channel akin to a **high-electron mobility transistor** (HEMT) have ... system is a promising candidate for generating **terahertz** radiation ...Cited by 4 - Web Search - BL Direct**Plasma and transit-time mechanisms of the terahertz radiation detection in high-electron-mobility ... - group of 6 »**

A Satou, I Khmyrova, V Ryzhii, MS Shur - Semiconductor Science and Technology, 2003 - iop.org

... Abstract. We develop a device model for a **high-electron-mobility transistor**